## (19) World Intellectual Property Organization International Bureau





### (43) International Publication Date 27 September 2001 (27.09.2001)

**PCT** 

# (10) International Publication Number WO 01/070675 A3

- (51) International Patent Classification?: C07C 259/06, 235/38, 235/78, 311/19, 321/20, 321/28, C07D 295/14, 213/75, 213/70, 239/90, 253/04, 209/12, 333/56, A61K 31/16, 31/18, 31/44, 31/495, A61P 35/00, C07C 237/20, 237/10, 275/40
- (21) International Application Number: PCT/IB01/00683
- (22) International Filing Date: 26 March 2001 (26.03.2001)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/192,151

24 March 2000 (24.03.2000) US

- (71) Applicant: METHYLGENE, INC. [CA/CA]; 7220 Frederick Banting, St. Laurent, Quebec H4S 2A1 (CA).
- (72) Inventors: DELORME, Daniel; 793 Charbonneau, St. Lazare, Quebec J7T 2B2 (CA). WOO, Soon, Hyung; 319 Pen Road, Beaconsfield, Quebec H9W 1B5 (CA). VAISBURG, Arkadii; #10 Riverwood Grove, Kirkland, Quebec H9J 2X2 (CA).

- (74) Agents: COTE, France et al.; SWABEY OGILVY RE-NAULT, Suite 1600, 1981 McGill College Avenue, Montréal, Québec H3A 2Y3 (CA).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

(88) Date of publication of the international search report: 31 October 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INHIBITORS OF HISTONE DEACETYLASE

(57) Abstract: The invention relates to the inhibition of histone deacetylase. The invention provides compounds and methods for inhibiting histone deacetylase enzymatic activity. The invention also provides compositions and methods for treating cell proliferative diseases and conditions.

Intal tional Application No PCT/IB 01/00683

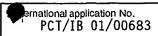
A. CLASSII IPC 7	FICATION OF SUBJECT MATTER C07C259/06 C07C235/38 C07C235/					
	CO7C321/28 CO7D295/14 CO7D213/ CO7D253/04 CO7D209/12 CO7D333/					
According to	b International Patent Classification (IPC) or to both national classification		AUIKSI/ 10			
B. FIELDS	SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 C07C C07D A61K A61P						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic d	ata base consulted during the international search (name of data bas	se and, where practical, search	terms used)			
EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data						
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with Indication, where appropriate, of the rela	evant passages	Relevant to claim No.			
X	MANFRED JUNG ET AL: "Amide Analog Trichostatin A as Inhibitors of Heacetylase and Inducers of Termin Differentiation" JOURNAL OF MEDICINAL CHEMISTRY, A CHEMICAL SOCIETY. WASHINGTON, US, vol. 42, no. 22, 4 November 1999 (1999-11-04), page 4669-4679, XP002144226 ISSN: 0022-2623 page 4669, column 1, line 1 -page column 1, line 41	istone nal Cell MERICAN	1-56			
X Further documents are listed in the continuation of box C. Patent family members are listed in annex.						
Special categories of cited documents:						
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NL - 2280 HV H3WK Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Zervas, B				

Internal Application No PCT/IB 01/00683

A. CLASSII IPC 7.	FICATION OF SUBJECT MATTER A61K31/44 A61K31/495 A61P3 C07C275/40	35/00 C07C237/20 C0	7C237/10	
According to	International Patent Classification (IPC) or to both national classification	assification and IPC		
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Minimum do	cumentation searched (classification system followed by class	sification symbols)		
Documentat	ion searched other than minimum documentation to the extent	that such documents are included in the field	is searched	
Electronic d	ata base consulted during the international search (name of da	ata base and, where practical, search terms u		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with Indication, where appropriate, of t	the relevant passages	Relevant to claim No.	
X	JUNG M ET AL: "Analogues of the A and trapoxin B as histone desinhibitors" BIOORGANIC & MEDICINAL CHEMISTOXFORD, GB, vol. 7, no. 13, 8 July 1997 (1 pages 1655-1658, XP004136274 ISSN: 0960-894X the whole document	eacetylase TRY LETTERS,	1-56	
X Furt	her documents are listed in the continuation of box C.	Patent family members are lis	sted in annex.	
Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed  Date of the actual completion of the international search		or priority date and not in conflict cited to understand the principle cinvention  "X" document of particular relevance; to cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the "Y" document of particular relevance; to cannot be considered to involve a document is combined with one of ments, such combination being of in the art.  "&" document member of the same pail	<ul> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled</li> </ul>	
2	9 July 2002	· · · · · · · · · · · · · · · · · · ·		
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016		Authorized officer  Zervas, B		

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category • Citation of document, with indication where appropriate, of the relevant passages    Relevant to claim No.				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to claim No.		
A .	SUZUKI ET AL: "Synthesis and Histone Deacetylase Inhibitory Activity of New Benzamide Derivatives" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 42, no. 15, 1999, pages 3001-3003, XP002158227 ISSN: 0022-2623 the whole document	1,18,30,40-56		



Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)				
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Although claims 47 to 56 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.				
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
-				
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
·				
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

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